

### **Amendment**

Please cancel claims 1-21 and 23-48. Please add new claims 49-58:

49. (New) A method comprising:

growing an edible plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions, whereby the plant is a member of the family Brassicaceae; and

harvesting the plant after it has accumulated selenium in its edible portions to a concentration higher than that of the selenium in the environment.

50. (New) A method comprising:

growing an edible plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions; and

harvesting the plant after it has accumulated selenium in its edible portions to a concentration higher than that of the selenium in the environment, wherein the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration that is several thousand fold higher than that of the selenium in the environment.

51. (New) A method comprising:

growing an edible plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions; and

harvesting the plant after it has accumulated selenium in its edible portions to a concentration higher than that of the selenium in the environment, wherein the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 400 ppm.

52. (New) A method of any one of claims 49-51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration that is 7500 fold higher than that of the selenium in the environment.

53. (New) The method of any one of claims 49-51, wherein:  
the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about several thousand mg/kg dry weight.
54. (New) The method of one of claims 49-51, wherein:  
the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 8000 mg/kg dry weight.
55. (New) The method of any one of claims 49-51, wherein:  
the step of growing comprises growing the edible plant under conditions such that at least about 20% of the accumulated selenium is in the form of Se-methylselenocysteine.
56. (New) The method of any one of claims 49-51, wherein:  
the step of growing comprises growing the edible plant under conditions such that at least about 85% of the accumulated selenium is water soluble.
57. (New) The method of any one of claims 50-51, wherein:  
the plant is a member of the family Brassicaceae.
58. (New) The method of any one of claims 49-51, wherein:  
the plant is of a species selected from the group consisting of *Brassica juncea*, *Brassica oleracea*, and *Brassica carinata*.

### **Remarks**

#### ***Support for New Claims***

Applicant submits that newly added claims 49-56 are fully supported by the specification. Specifically, the subject matter of canceled claims 1-7 have been reintroduced in newly added claims 49, 57 and 58. Further support for the newly introduced claims can be found as follows: for claims 50 and 52, the chart on page 12; for claim 51, pages 3 and 9; for claims 53 and 54, the chart on page 13; and for claims 55 and 56, page 19 of the specification.